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## **CABBAGE CULTIVAR TRIAL — 1997**

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Cabbage Cultivar Trial 1997  
The Ohio State University  
Horticulture and Crop Science Department  
Dr. Richard L. Hassell  
Mrs. Cindy Wallace

- Objective:** To evaluate available cultivars or advanced breeding lines for potential use in fresh market cabbage production under northern Ohio growing conditions.
- Methods:** Seed companies were contacted in late February for entry in the trial. From those requests forty-two entries were received from eleven major seed companies. Fifteen cultivars were then selected for a grower trial at Boose Farm, Inc. All entries were seeded in the greenhouse on May 5th using Landmark 288 deep cell trays and Metro Mix 360 soilless media at the Vegetable Crops Branch located in Fremont, Ohio. Once the plants had reached the 1st true leaf stage a continuous fertilizer feed program with 50 ppm Nitrogen was enacted using Peters 20-20-20 water soluble fertilizer. After six weeks the plants were pulled and prepared for field transplanting at both the Fremont location as well as for Boose Farm in Norwalk, Ohio.
- At the Vegetable Crops Branch field preparation was done prior to transplanting. Field transplanting was done using a Holland Brand Carousel planter on June 16. Thirty foot single row plots were thirty inches apart between rows with plants placed ten inches apart within the row. Each cultivar was replicated four times in a randomized complete block design. At the Boose Farm location plots were double rows, two hundred fifty feet long for each cultivar entered. Plant spacing was ten inches between plants and thirty inches between rows.
- Standard grower practices were then employed to insure adequate plant growth and development. Rich, we did not need irrigation in this year. Pesticides were applied as needed to insure weed, insect and disease control.
- Results:** Eleven cultivars are worthy of trial on a commercial basis: Green Cup, Emblem, Fresco, Gideon, Lynx, Blue Thunder, Atlantis, Blue Pak, XPH 15511, Eristo, and Dynamo.

Acknowledgment

Thank you to the OVSFRDP for their financial support to this project.

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Table 1a: Cabbage Cultivar Trial 1997

<i>Cultivar</i>	<i>Source</i>	<i>* Days To Harvest</i>	<i>Wt/head lbs</i>	<i>Wt/Crate 16 count lb</i>	<i>Wt/Crate 18 count lb</i>	<i>Head Height inches</i>	<i>Head Diameter inches</i>	<i>Core Length inches</i>	<i>Comments</i>
Ramada	Bejo	111	3.20	51	58	7.35	6.42	3.17	flat heads, light green, few thrips, large heads, solid inside
Cheers	Takii	111	3.18	51	57	8.01	7.12	3.58	round to flat heads, no wrapper leaves, blue green large heads
Green Cup	Takii	93	2.61	42	47	6.17	6.79	3.13	excellent wrapper leaves, round to flat, blue green, long core, no thrips
Gloria Kid yr	Siegers	93	2.81	45	51	6.53	7.79	2.75	round to flat, blue green, excellent wrapper leaves, no thrips loose inside
Green Kid yr	Siegers	111	2.91	47	52	6.98	6.99	3.39	round to flat, no wrapper leaves, thrip injury, internal decay blue green
Silk Road	Siegers	111	2.85	46	51	7.11	6.81	3.28	mostly round, blue green, no thrip injury, excellent wrappers
Green Challenger	Siegers	93	2.37	38	43	6.54	6.59	3.46	thrip injury, no wrapper leaves, blue green, round to flat, core extending
Green Voyager	Siegers	93	2.37	38	43	6.29	6.67	3.29	round to pointed heads, blue green, light thrip injury, tight inside
Emblem	Sakata	93	2.53	40	46	6.46	6.71	3.83	round to pointed heads, green, excellent wrapper leaves, no thrip
Blue Vantage	Sakata	93	2.69	43	48	6.46	7.17	2.83	flat heads, blue green, light thrip, few wrapper leaves, loose
CB2	Rogers	93	2.25	36	41	6.88	6.25	3.17	blue to blue green, excellent wrapper leaves, round to pointed light thrip injury
Augusta	Rogers	93	2.76	44	50	6.63	6.84	3.33	blue green heads, few wrapper leaves, no thrip injury
Bronco F1	Bejo	111	3.04	49	55	7.06	7.00	2.84	round to flat mostly round, blue green, no wrapper leaves, no thrip injury
Fresco F1	Bejo	93	2.92	47	53	6.89	7.17	3.27	blue heads, a lot of wrapper leaves, crinkly outer leaves, found to flat heads, light thrip injury
Farao F1	Bejo	80	3.14	50	57	7.10	7.12	3.50	round heads, few wrapper leaves, blue green heads, early but no real attractive
Gideon	Bejo	111	3.19	51	57	7.12	6.68	2.98	round heads, blue green, curly leaves, excellent wrapper leaves solid interior
Azurro	Bejo	111	2.27	36	41	6.58	6.39	2.72	red, mostly round heads, few wrapper leaves, short core
Lynx Hybrid	Reeds	111	2.79	45	50	7.21	6.55	3.07	round heads, blue green, light thrips, excellent wrapper leaves
Superelite yr hybrid	Reeds	111	2.68	43	48	6.56	6.34	3.37	excellent wrapper leaves, blue green, round heads, small very solid interior
Blue Thunder	Rispens	111	3.02	48	54	7.48	6.74	3.86	blue green, no thrip, no wrapper leaves, very thick core
Atlantis	Rispens	111	2.74	44	49	6.58	6.58	2.75	blue green, excellent wrapper leaves, curly leaves, solid round to pointed heads

\* From Transplant  
Seeded: May 5, 1997  
Transplanted: June 18, 1997

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Table 1b: Cabbage Cultivar Trial 1997

Cultivar	Source	Days To Harvest	Wt/head lbs	Wt/Crate 16 count lb	Wt/Crate 18 count lb	Head Height inches	Head Diameter inches	Core Length inches	comment
Blue Gem	Rispens	93	2.76	44	50	6.67	7.17	3.29	light thrip injury, few wrapper leaves, round to flat heads, blue green heads
Blue Pak	Rispens	93	2.71	43	49	6.83	6.56	3.00	blue to blue green, excellent wrapper leaves, round heads, solid interior
Applause	Rispens	93	2.73	44	49	6.25	7.31	2.87	green heads, few wrapper leaves, loose inside, flat heads, no thrip injury
Blue Bayou	Asgrow	111	2.94	47	53	7.89	6.33	3.82	flat heads, blue green, light thrip injury, no wrapper leaves solid leaves
XPH 15513	Asgrow	111	3.37	54	61	7.64	6.78	2.80	blue green, flat heads, excellent wrapper leaves, some thrip inju
XPH 15514	Asgrow	111	2.87	46	52	7.68	6.48	3.31	flat heads, blue green, no wrapper leaves, large heads, light thrip injury
XPH 15515	Asgrow	111	2.86	46	51	6.72	6.89	3.07	blue green heads, excellent wrapper leaves, some thrip injury very solid interior
XPH 15516	Asgrow	93	2.44	39	44	6.46	6.83	3.21	light blue green, excellent wrapper leaves, round, no thrips
XPH 15519	Asgrow	93	2.20	35	40	5.79	6.62	2.86	no wrapper leaves, round to flat, green heads, no thrips loose inside
CXB 93136	Chrised	111	3.07	49	55	8.06	6.14	3.11	found to flat heads, no wrapper leaves, thrip injury, solid interior, blue green
XB 93256	Chrised	111	3.07	49	55	7.78	6.39	3.41	blue green heads, flat, excellent wrapper leaves, no thrips
XPH 15511	Asgrow	93	2.21	35	40	6.79	6.17	3.50	red lot of wrapper leaves, pointed heads, no thrips
XPH 15509	Asgrow	93	2.73	44	49	6.42	6.79	3.28	blue green, excellent wrapper leaves, round to pointed, thick leaves, very tight inside
FMX 551	Ferry-Morse	93	2.67	43	48	6.71	6.71	2.38	few wrapper leaves, a lot of thrip injury, blue green to green curly thick leaves, short core, found heads, tight
Fortress	Ferry-Morse	93	2.59	41	47	6.28	7.50	3.54	round to flat, dark blue green, excellent wrapper leaves, no thrip injury, core is extending
Augusta	Rogers	93	2.57	41	46	6.67	6.75	3.17	green heads, round heads, few wrapper leaves, light thrip injury
Pennant	Rogers	111	3.31	53	60	7.61	6.58	3.06	flat heads, no wrapper leaves, some thrip injury, loose inside
Quisto	Rogers	111	3.07	49	55	7.11	6.63	3.48	blue green, round heads, few wrapper leaves, light thrip injury, very solid inside, very nice!!
Cardinal	Harris Moran	111	2.35	38	42	6.21	6.10	3.11	red, round to flat heads, no thrip injury, long core
HMX 3226	Harris Moran	93	2.20	35	40	6.54	6.33	3.13	blue green to green. no wrapper leaves, flat head, no thrips tight inside
Dynamo	Stokes	93	1.76	28	32	6.00	5.39	2.06	very small heads, green, very tight inside, round to pointed, excellent wrapper leaves

\* From Transplant  
Seeded: May 5, 1997  
Transplanted: June 18, 1997

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Table 2:Cabbage Cultivar Trial 1997  
Boose's Farm Inc.

<i>Cultivar</i>	<i>Source</i>	<i>* Days To Harvest</i>	<i>Wt/head lbs</i>	<i>Wt/Crate 16 count lb</i>	<i>Wt/Crate 18 count lb</i>	<i>Head Height inches</i>	<i>Head Diameter inches</i>	<i>Core Length inches</i>	<i>Comments</i>
Ramada	Bejo	73	3.49	56	63	6.00	5.67	2.83	Good appearance, Good weight
Cheers	Takii	73	2.85	46	51	5.33	6.00	2.67	Good appearance, Good weight
Green Cup	Takii	73	3.78	60	68	5.50	6.17	2.83	good appearance fair weight, not real hard
Gloria Kid yr	Siegers	73	4.32	69	78	5.83	7.33	2.33	Average weight, fair appearance, flat head
Fresco F1	Bejo	73	4.04	65	73	6.50	6.50	2.50	heavy heads, appearance good
Gideon	Bejo	73	3.4	54	61	6.00	5.67	3.00	very heavy, excellent appearance
Blue Thunder	Rispens	73	3.73	60	67	6.17	6.25	2.67	flat heads good weight good appearance
Blue Pak	Rispens	73	3.4	54	61	6.00	5.75	2.50	good weight good appearance
XPH 15514	Asgrow	73	3.54	57	64	5.50	6.42	3.00	good weight good appearance
CXB 93136	Chriseed	73	3.72	60	67	6.00	6.50	3.00	good appearance, fair weight
XB 93256	Chriseed	73	3.65	58	66	5.67	6.17	2.83	very light weight, fair appearance
XPH 15511	Asgrow	73	2.88	46	52	5.83	5.25	3.00	red, excellent weight, excellent appearance
XPH 15509	Asgrow	73	2.8	45	50	5.00	6.00	3.00	very light weight, fair appearance
Fortress	Ferry-Morse	73	1.86	30	33	4.83	5.17	2.50	light weight, fair appearance
HMX 3226	Harris Moran	73	3.36	54	60	6.00	5.83	2.33	heavy weight, fair appearance

\* From Transplant  
Seeded: May 5, 1997  
Transplanted: June 20, 1997  
Harvested: September 3, 1997

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